

## **Addendum 1, Revision 1**

to FDR Group Chairman Factual Report - 10

**DCA96MA070**

submitted

September 9, 1998

revised

February 15, 2000

# NATIONAL TRANSPORTATION SAFETY BOARD

Office of Research and Engineering  
Washington, D.C. 20594

February 15, 2000

## Flight Data Recorder - 10

### Addendum I to Group Chairman's Factual Report (Revision 1)

### *(Additional Parameters for Flt. 800 and Prior Landing)*

by Dennis R. Grossi

#### A. ACCIDENT

Location: East Moriches, N.Y.  
Date: July 17, 1996  
Time: 2031 local standard time  
Aircraft: Trans World Airlines (TWA) Flt. 800, B-747-131, N93119  
NTSB Number: DCA96MA070

#### B. SUMMARY

**Revision Note:** *The FDR recovery software used to produce the tabular listing in the original Addendum report was designed to process a standard 64-word, 1-second data frame, not the 43-word, 0.67188-second data frame used by the TWA 800 FDR system. Algorithms added to the software properly addressed the timing of the data frames but introduced timing offsets within each data frame ranging linearly from 0.005 seconds for the 1<sup>st</sup> word to 0.22 seconds for the 43rd word. The software was revised to correctly define the time of each parameter within each 0.67188-second data frame.*

On July 17, 1996, about 2031 eastern daylight time, a Boeing 747-131, N93119, operated as Trans World Airlines Flight 800 (TWA800), crashed into the Atlantic Ocean, about 8 miles south of East Moriches, New York, after taking off from John F. Kennedy International Airport (JFK), Jamaica, New York. All 230 people aboard the airplane were killed. The airplane, which was operated under Title 14 Code of Federal Regulations (CFR) Part 121, was bound for Charles De Gaulle International Airport (CDG), Paris France. The flight data recorder (FDR) and cockpit voice recorder (CVR) ended simultaneously, about 13 minutes after takeoff.

The FDR, a Sundstrand Model UFDR (s/n 6707), was recovered from the Atlantic Ocean on July 24, 1996, and transported to the Safety Board's FDR Laboratory in the custody of the Federal Bureau of Investigation (FBI). The FDR arrived at the Safety Board's Laboratory at approximately 3:00 AM, on July 25, 1996. The damaged recorder was disassembled and the magnetic tape recording medium removed for playback. The initial readout of the recorded data was performed on July 25, 1996.

The DFDR Factual Report did not contain all of the data recorded during flight 800, nor did it contain any data recorded during the prior landing. The attached tabular listings contain the parameters recorded during flight 800 and not listed in the DFDR factual report, and the DFDR data recorded during the landing at JFK. DFDR elapsed time was used as the time base for data recorded during the landing prior to flight 800.

A handwritten signature in black ink, reading "Dennis R. Grossi". The signature is written in a cursive style with a large, stylized 'D' and 'G'.

Dennis R. Grossi  
National Resource Specialist Flight Data Recorders

TWA Flt. 800

B747- 131, Takeoff to End of Data  
Tabular Data No. 2, Revised: December 22, 1999

National Transportation Safety Board

TWA Flt. 800, B747-131, Takeoff to End of Data  
Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALIC (FEET)	Elevator Position (degrees)	Rudder Position (Lower) (degrees)	Aileron R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:18:40	-2835 -2835	0.7	2.9 2.8	-3.4	10.8 10.9	10.1 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:41	-2835	0.8 0.6	2.9 2.9	-9.3 -9.1	10.7 10.9	10.0 9.9	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:42	-2835	0.8	2.9	11.6	10.9 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:43	-2835 -2835	0.7 0.8	2.3 2.1	11.6 10.7	10.8 10.8	10.1 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:44	-2835	0.7	0.9	11.0	10.8 10.8	9.9 9.9	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:45	-2835 -2835	0.8 0.7	-0.3 -1.1	12.6 3.9	10.7 10.9	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:46	-2835	0.7	-1.1	-9.7	10.7 10.8	10.1 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:47	-2835 -2835	0.7 0.8	-1.1 -1.1	13.4 -10.1	10.8 10.8	10.0 10.1	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:48	-2835	0.9	-1.0	10.3	10.8 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:49	-2835 -2835	0.7 0.8	-1.0 -1.1	10.3 11.0	10.8 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:50	-2835	0.7	-1.1	-2.6	10.9 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:51	-2835 -2835	0.7 0.7	-0.9 -0.4	-2.6 -2.4	10.9 10.7	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:52	-2835	0.7	-1.0	-2.4	10.8 10.8	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:53	-2835 -2835	0.7 0.7	-0.9 -0.4	-2.6 -2.4	10.7 10.7	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:54	-2835	0.7	0.1	-2.6	10.8 10.9	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:55	-2835 -2835	0.6 0.8	3.5 2.9	-2.6 -2.6	10.7 10.9	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:56	-2700	0.8	3.1	-2.0	10.9 10.7	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:57	-2835 -2835	0.7 0.7	4.6 5.1	-2.6 -2.4	10.8 10.8	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:58	-2835	0.9	5.1	-2.4	10.9 10.7	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:18:59	-2700 -2835	3.2 3.6	4.1 3.9	-2.4 -2.6	10.7 10.9	9.9 9.9	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:00	-2835	8.6	4.0	-3.0	10.7 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:01	-2835 -2835	7.5 7.4	4.2 4.1	-3.0 4.0	10.8 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:02	-2835	7.5	4.0	-2.6	10.9 10.7	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:03	-2835 -2835	8.6 9.5	3.8 2.3	-2.6 -2.6	10.8 10.8	10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow

TWA Flt. 800, B747-131, Takeoff to End of Data  
Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALIC (FEET)	Elevator Position (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:19:04	-2835	8.9	-1.2 -1.3 -3.7	-2.6 -2.4	10.7 10.9	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:05	-2835 -2835	7.9 7.7	-8.2 -10.8 -10.0	-2.4	10.8 10.9 10.8	9.9 10.0 10.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:06	-2835	7.9	-9.1 -3.6 -4.9 -7.2	-2.4 -2.6 -2.6	10.9 10.9 10.8	10.0 10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:07	-2835 -2700	7.9 7.7	-3.6 -4.9 -6.6	-2.6 -2.6	10.8 10.9 10.9	10.0 10.0 10.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:08	-2835	8.6	-7.3 -4.0 -2.2	-2.2 -2.6	10.9 10.9	9.9 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:09	-2700 -2700	8.6 7.8	-2.0 -3.8 -6.5	-2.6 -3.0	10.8 10.8 10.8	10.0 10.0 10.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:10	-135	8.3	-5.8 -5.9 -5.5	-3.0 -6.9	10.9 10.8 10.9	9.9 10.0 9.9	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:11	-2835 -2835	8.1 8.5	-5.1 -3.8 -3.4	-9.7 -9.7 13.0	10.8 10.9 10.8	10.0 9.9 10.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:12	-2835	9.5	-1.3 -0.5 0.8	-9.7 13.0	10.8 10.9 10.8	9.9 10.0 9.9	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:13	-2835 -2835	8.8 8.2	-1.9 -2.9 -5.6	-9.7 -2.9 -7.6	10.7 10.9 10.8	10.0 10.0 9.9	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:14	-2700	7.2	-7.6 -8.7 -8.6	-3.7 -3.7	10.8 10.9 10.8	9.9 10.0 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:15	-2700 -2700	7.1	-7.7 -7.2 -5.3	-6.9 -8.3 -4.6	10.7 10.9 10.8	10.0 10.0 10.0	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:16	-2700	7.6 8.5	-4.6 -0.7 -2.5	-8.3 -8.5	10.8 10.9 10.8	10.0 10.0 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:17	-2700 -2565	7.5	-2.5 -1.9 -2.3	-7.9 -7.9 -8.1	10.9 10.7 10.9	10.0 10.0 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:18	-2700	7.7 7.5	-1.9 -1.3 -1.5	-7.9 -8.1	10.8 10.9 10.7	9.8 9.9 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:19	-2700 -2700	7.9	-1.7 -1.7 -1.8	-10.1	10.8 10.8 10.9	9.8 9.8 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:20	-2700	7.8 7.5	-1.9 -3.8 -4.4	-16.4 -13.0	10.8 10.9 10.7	9.8 10.0 9.9	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:21	-2700 -2700	7	-4.1 -3.7 -1.3	-12.0	10.9 10.8 10.8	10.0 9.9 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:22	-2565	7.2 7.5	-1.1 -1.3 -2.2	-12.0 70.6	10.7 10.7 10.7	9.9 10.0 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:23	-2700 -2700	6.7	-3.1 -4.7 -4.5	-14.4	10.8 10.7 10.6	9.9 9.7 10.0	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:24	-2700	6.1 5.8	-1.3 -0.7 -2.4	-11.2 -17.0	10.7 10.8 10.9	9.8 9.8 9.9	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:25	-2700	5	-2.9 -3.8 -1.2	-17.0	10.9 10.9 10.8	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:26	-2700 -2700	5 4.8	-0.9 -1.2 -1.3	-18.0 -18.3	10.7 10.7 10.7	9.9 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow

TWA Flt. 800, B747-131, Takeoff to End of Data

Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron R Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:19:27	-2430	4.4	-3.4	-18.3	10.8	9.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:28	-2700	4.5	-1.3	-21.1	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:29	-2700	3.7	-2.6	11.4	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:30	-2700	3.2	-2.7	-9.7	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:31	-2700	2.4	-3.2	-16.0	10.8	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:32	-2700	3.1	-2.4	11.6	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:33	-2700	2.6	-1.2	-22.1	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:34	-2835	2.4	-2.4	-10.3	10.8	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:35	-2835	2.3	-2.5	-23.1	10.8	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:36	-2835	1.9	-3.6	-23.5	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:37	-2970	-4	-2.9	-14.8	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:38	-3105	-4.3	-2.7	-10.3	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:39	-3240	-5.3	-2.4	27.6	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:40	-3375	-7.1	-2.5	0.0	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:41	-3510	-7.1	-2.2	-20.1	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:42	-3510	-7.1	-2.1	3.0	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:43	-3105	-7.4	-1.8	0.0	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:44	-2700	-6.9	-2.6	-5.7	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:45	-1890	-5.7	-2.4	-6.1	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:46	-1485	-4.1	-2.1	-14.8	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:47	0	-3.8	-2.1	-15.0	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:48	675	-2.5	-1.7	0.0	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:49	2160	-0.9	-1.9	-1.0	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:50	2835	-1.7	-2.1	4.9	10.7	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:19:51	3510	-1.9	-2.2	-2.2	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

TWA Flt. 800, B747-131, Takeoff to End of Data  
Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

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20:19:51	4320	-1.7	-2.2 -2.4 -2.5	5.9 3.7	10.7 10.7 10.8	9.7 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:52	4995 5670	-1.1 -1.7	-2.3 -2.1	3.9	10.7 10.6 10.7	9.7 9.7 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:53	6210	-1	-1.9 -1.8 -1.9	3.9 3.2	10.8 10.7 10.6	9.8 9.8 9.7	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:54	7020 7425	-1.2 -0.9	-1.9 -2.1	0.0	10.7 10.6	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:19:55	7965	36.9	-1.7 -1.6 -1.5	1.0 2.6	10.7 10.7 10.7	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:56	8370 8910	-1.7 -2.1	-1.3 -1.2 -1.2	1.6	10.7 10.7 10.7	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:57	9180	-2	-1.2 -1.2 -1.2	-2.4 27.2	10.7 10.7 10.7	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:58	9585 19710	-1.8	-1.3 -1.3 -1.3	4.3	10.8 10.9 10.7	9.7 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:19:59	10260	-1 -1.7	-1.5 -1.4 -1.3	-0.4 -1.0	10.7 10.7 10.6	9.8 9.8 9.7	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:00	10530 11880	-2.1	-1.3 -1.3 -1.3	-0.4	10.7 10.7 10.7	9.8 9.7 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:01	11070	-2.5 -2.2	-1.2 -1.3 -1.5	0.0 0.0	10.6 10.6 10.6	9.8 9.8 9.7	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:02	11340 11610	-2.1	-1.6 -1.6 -1.7	1.2	10.7 10.7 10.7	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:03	11745	-2.4 -2.1	-1.7 -1.7 -1.5	-0.4 -3.0	10.7 10.7 10.6	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:04	12015 12285	-2.1	-1.5 -1.5 -1.5	-8.3	10.6 10.6 10.7	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:05	11745	-2.2 -2.1	-1.5 -1.3 -1.5	-6.3 -3.7	10.7 10.7 10.6	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:06	12555 12825	-2.1	-1.5 -1.7	-8.3	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:07	12960	-2 -1.9	-1.8 -1.5 -1.3	-9.3 -8.3	10.6 10.6 10.6	9.7 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:08	13095	-1.8	-1.1 -0.9 -0.8	-10.7	10.6 10.5 10.5	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:09	13365 13365	-1.6 -1.7	-0.7 -0.5 -0.6	0.0 -2.4	10.6 10.7 10.6	9.7 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:10	12825	-1.7	-0.8 -1.0 -1.2	-4.7	10.6 10.5 10.5	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:11	13635 13770	-1.3 -1.7	-1.3 -1.3 -1.3	-4.7 -6.3	10.6 10.6 10.5	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:12	13905	-1.7	-1.3	-15.0	10.6 10.6 10.5	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:20:13	13905 14040	-1.5 -1.3	-1.3 -1.1 -1.1	-14.8 -5.7	10.5 10.7 10.6	9.8 9.8 9.8	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Ext Ext Ext	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow



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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Roller Position R Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Flap pos Trailing Inbd (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:20:14	14175	-1.2	-1.2	-14.6	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:15	13500 14310	-1.1 -0.8	-1.2 -1.2	-14.8 -14.4	10.6 10.6	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:16	14445	-1.3	-1.1	6.5	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:17	14445 14580	-1.3 -1	-1.2 -1.2	-3.0 -5.3	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:18	14715	-0.8	-1.3	-9.3	10.5	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:19	14850 14175	-0.4 0	-1.3 -1.1	-6.3 -2.0	10.6 10.6	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:20	14985	0.4	-0.9	0.6	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:21	15120 15120	0.3 0.4	-1.1 -1.2	0.0 0.0	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:22	15255	0.5	-1.3	5.3	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:23	15255 15525	0.6 0.5	-1.3 -1.4	-2.0 -3.7	10.6 10.6	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:24	14715	0.6	-1.1	-1.4	10.7	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:25	16065 15525	0.7 0.6	-0.3 -0.4	2.6 2.6	10.6 10.7	9.8 9.7	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:26	15525	0.5	-0.4	1.6	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:27	15525 15930	0.6 0.4	-0.6 -0.5	3.9	10.6 10.5	9.7 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:28	15660	-0.2	-0.7	-2.0	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:29	15660 15660	-0.4 -0.11	-0.7 -0.7	-2.2 -0.7	10.6 10.5	9.6 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:30	15660	-0.2	-0.7	-6.3	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:31	15660 15795	-0.2 0.2	-0.4 -0.4	-2.4	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:32	15795	0.5	-0.4	-2.0	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:33	15795 15795	0 -0.2	-0.4 -0.5	-1.6 -0.7	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:34	15795	-0.2	-0.8	-2.6	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:35	15795 15795	-0.2 -0.11	-0.9 -0.9	-2.6	10.6 10.7	9.8 9.8	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Ext Ext	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:20:36	15930	-0.7	-0.9	-2.6	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:37	15930	0.2	-0.9	-2.0	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (lower) (degrees)	Attitude Position R inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUT80 (degrees)	Lead Inq Edge Lt. Set 1 (discrete)	Lead Inq Edge Lt. Set 2 (discrete)	Lead Inq Edge Lt. Set 3 (discrete)	Lead Inq Edge Lt. Set 4 (discrete)	Lead Inq Edge Rt. Set 1 (discrete)	Lead Inq Edge Rt. Set 2 (discrete)	Lead Inq Edge Rt. Set 3 (discrete)	Lead Inq Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:20:38	15930	0.4	-1.0	-1.2	-4.7	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:39	16065	0.7	-0.7	-2.0	-2.0	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:40	16200	1	-0.6	-1.0	6.9	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:41	16200	0.7	-0.7	-1.6	-1.6	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:42	16335	0.7	-0.9	2.2	-0.9	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:43	16335	0.7	-1.0	-2.0	-1.1	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:44	16470	0.7	-0.8	-1.0	-0.9	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:45	16605	0.6	-0.6	-3.0	-3.0	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:46	16605	0.7	-0.7	-3.0	-3.0	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:47	16605	0.2	-0.7	-2.0	-2.0	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:48	16740	-0.1	-0.8	6.5	5.9	10.6	9.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:49	16740	-0.4	-1.3	8.9	8.9	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:50	16740	-0.4	-1.3	12.0	8.1	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:51	16740	-0.2	-1.5	8.1	8.1	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:52	16740	-0.4	-1.5	4.9	14.2	10.6	9.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:53	16875	-0.4	-1.3	5.5	5.5	10.6	9.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:54	16875	-0.3	-1.2	15.6	15.0	9.9	9.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:55	16875	-0.2	-1.2	7.5	7.5	9.9	8.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:56	16875	-0.1	-1.2	5.9	5.9	6.7	6.4	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:57	16875	-0.4	-1.1	4.3	4.3	5.4	5.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:58	16065	-0.4	-1.0	4.9	5.3	5.5	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:20:59	16875	-0.4	-1.0	16.2	16.2	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:00	16875	-0.4	-0.9	4.3	4.3	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position (degrees)	Rudder Position (lower) (degrees)	Aileron R Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:21:01	16875	-1.3	-0.5	4.3	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:02	16875	-1	-0.5	6.9	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16065		-1.2	-0.5	6.9	5.3	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:03	16875	-1	-0.6	17.4	5.3	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.7		5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:04	16740	-0.9	-0.7	4.9	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16740		-1.1	-0.7	4.9	5.3	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:05	16875	-0.7	-0.7	4.9	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.7		5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:06	16740	-0.7	-0.7	4.9	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16740		-0.7	-0.7	4.5	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:07	16065	-0.9	-0.9	4.3	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.8		5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:08	16740	-0.8	-0.9	12.6	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16740		-0.7	-0.9	-1.6	5.3	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:09	16740	-0.7	-0.9	4.3	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.9		5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:10	16740	-0.5	-0.9	4.3	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16740		-0.6	-0.9		5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:11	16740	-0.6	-0.8	4.3	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.8	-9.7	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:12	15930	-0.5	-0.8	1.2	5.1	5.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
17415		-0.5	-0.8		5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:13	16740	-0.4	-0.6	0.6	5.2	5.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.5	1.0	5.1	5.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:14	16740	-0.7	-0.4	-0.4	4.7	4.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
17820		-0.7	-0.5		4.9	4.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:15	16740	-0.7	-0.5	-0.4	3.9	4.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			-0.5	-2.0	4	4.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:16	16605	-0.4	-0.6	-3.0	3.4	4.4	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
15930		-0.5	-0.7		3.5	4.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:17	16605	-0.4	-0.4	-6.7	2.7	3.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			0.0	-8.3	2.7	3.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:18	16605	-0.4	0.5	-7.9	2.6	3.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16605		-0.3	0.5		2.6	3.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:19	16605	-0.2	0.5	-7.9	2.5	2.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			0.5	-8.3	2.4	3.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:20	16605	-0.2	0.4		2.4	9.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16605		-0.2	0.5	-9.7	2.3	2.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:21	16605	-0.2	0.7	-9.7	2.1	2.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			0.7	-9.7	2.2	2.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:22	16605	-0.3	0.6	-9.3	2.1	2.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16605		-0.4	0.5		2	2.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:23	16605	-0.4	0.4	-8.7	1.9	2.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			0.3	-9.3	1.9	2.4	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
			0.3		1.8	2.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
					1.8	2.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

TWA Flt. 800, B747-131, Takeoff to End of Data

Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALT (FEET)	Elevator Position Left (degrees)	Roller Position (lower) (degrees)	Roller R Inbd (degrees)	Roller R Outbd (degrees)	Flap pos Trailing OUTBD (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:21:24	16470	-0.5	0.2	-11.4	1.7	2.0	2.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:25	16470	-0.4	0.1	-11.2	1.6	1.9	2.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:26	16335	0	0.0	-8.7	1.5	1.8	2.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:27	16200	0.3	-0.8	-10.7	1.3	1.7	1.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:28	16065	0.5	-0.8	-11.2	1.2	1.5	1.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:29	15930	0.5	-0.9	-9.7	1.1	1.4	1.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:30	15795	0.5	-1.9	-7.3	1	1.3	1.4	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:31	15525	0.5	-1.9	-7.7	0.9	1.2	1.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:32	15295	0.5	-1.6	4.9	0.8	1.1	1.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:33	15120	0.5	-1.5	0.0	0.7	1.0	1.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:34	14850	0.5	-1.3	-9.7	0.7	0.9	1.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:35	14715	0.4	-1.3	-7.3	0.6	0.8	0.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:36	14445	0.4	-1.1	-9.3	0.5	0.7	0.8	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:37	14040	0.4	-0.6	-9.3	0.4	0.6	0.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:38	13635	0	-0.6	5.7	0.4	0.7	0.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:39	13365	0	-0.7	4.9	0.3	0.5	0.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:40	12960	-0.1	-0.6	1.6	0.2	0.4	0.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:41	12825	-0.1	-0.5	6.5	0.2	0.4	0.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:42	12420	-0.1	-0.9	-6.9	0.1	0.3	0.4	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:43	12150	0	-0.9	-8.7	0	0.2	0.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:44	11745	0.1	-0.9	-9.3	0	0.2	0.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:45	11475	0	-1.0	-4.3	0	0.2	0.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:46	10800	0	-1.1	-12.0	0	0.1	0.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:47	10665	0.1	-1.1	-11.8	0	0.0	0.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20:21:48	10260	0.5	-1.1	-9.3	0	0.0	0.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

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Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:21:48	9990	0.3	-1.1	-5.3	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:49	9720 9450	0.4 0.4	-1.1 -1.0	-3.0 -9.3	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:50	8370	0.5	-1.0	-10.7	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:51	8775 8505	0.2 0.2	-0.9 -0.9	-9.3 -10.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:52	8370	0.3	-0.9	-11.4	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:53	7965 7830	0.3 0	-0.9 -1.0	-10.3	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:54	7560	0.2	-0.9	-11.4 -13.4	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:55	6750 6885	0 0	-0.9 -0.9	-1.0	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:56	6615	0	-0.9	3.0	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:57	6345 5940	0 0	-0.9 -0.9	-12.4	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:58	5535	0	-0.9	-5.7 -10.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:21:59	5130 4455	0.2 0.2	-0.9 -0.9	-10.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:00	4320	0.3	-0.9	-9.1 -12.4	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:01	3915 3375	0.4 0.2	-0.9 -0.9	-10.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:02	2970	0.2	-0.9	-10.7	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:03	2430 1755	0.4 0.4	-0.9 -0.9	-10.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:04	1215	0.2	-0.9	-12.0 -11.4	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:05	810 270	0 0.1	-0.8 -0.9	-8.7	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:06	-270	0.1	-0.9	6.2	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:07	-810 -1350	0.3	-0.9	5.9	0	0	0.0	Retrct	Ext	Ext	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:08	-1890	0	-0.9	5.9	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:09	-2565 -3105	0.2	-0.7	5.9	0	0	0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow
20:22:10	-3780	0.1 0.1	-0.7 -0.6	4.3 -6.9	0 0	0	0.0 0.0	Retrct	Trans	Trans	Retrct	Trans	Retrct	Trans	Stow	Stow	Stow	Stow

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Tabular Data No. 2, Revised: December 22, 1999, National Transportation Safety Board

Time (seconds)	ALIC (FEET)	Elevator Position (Left) (degrees)	Rudder Position (Tower) (degrees)	Rolleron & Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing Outbd (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:22:11	-4320	0	-0.7	6.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:12	-4725	0	-0.7	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:13	-5400	0.1	-0.6	2.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:14	-5805	0	-0.7	-13.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:15	-6345	0.4	-0.7	-12.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:16	-6885	0.6	-0.7	-12.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:17	-7425	0.3	-0.7	-14.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:18	-7830	0.3	-0.7	-14.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:19	-8370	0.4	-0.8	-14.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:20	-8775	0.2	-0.8	-9.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:21	-9180	0.1	-0.7	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:22	-9450	0.4	-0.7	-13.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:23	-9855	0.2	-0.8	-12.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:24	-10125	0.2	-0.8	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:25	-10530	0.3	-0.8	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:26	-10800	0.4	-0.8	2.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:27	-11070	0.2	-0.8	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:28	-11340	0	-0.7	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:29	-11475	0	-0.7	-13.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:30	-11745	0	-0.8	-20.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:31	-12015	0	-0.9	-18.9	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:32	-12150	0.1	-0.9	-14.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:33	-12420	0.2	-0.9	-21.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:34	-12555	0.2	-0.9	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:35	-12825	0	-0.9	-14.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:36	-12960	0.1	-0.9	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:37	-13230	0	-0.9	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:38	-13365	0	-0.9	-20.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:39	-13500	0.1	-0.8	-15.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:40	-13770	0.2	-0.8	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:41	-13905	0.2	-0.8	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:42	-14040	0.2	-0.8	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:43	-14175	0.1	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:44	-14350	0.3	-0.9	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:45	-14445	0.3	-0.9	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:46	-14715	0.2	-0.9	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:22:35	-14715	0	-0.9	-17.4	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:36	-14985 -15120	0	-0.8 -0.9	-16.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:37	-15255	0	-0.9	11.4 -5.3	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:38	-14445 -15525	-0.2 0	-0.9 -0.8	11.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:39	-15525	0.1	-0.9	11.6 12.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:40	-15660 -15795	0.2 0.2	-0.9 -0.8	12.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:41	-15930	0.4	-0.8	12.0 -8.7	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:42	-16065 -15390	0.1 0.3	-0.9 -0.8	-12.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:43	-16335	0.1	-0.9	-21.1 -21.1	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:44	-16470 -16470	0.1 0.2	-0.9 -0.8	13.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:45	-16605	0.2	-0.9	12.0 -19.5	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:46	-16740 -16875	0.3 0.3	-0.9 -0.9	-15.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:47	-16065	0.2	-0.9	-15.0 11.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:48	-16875 -17010	0.2 0.3	-0.9 -0.9	-14.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:49	-17010	0.1	-0.9	-9.7 -14.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:50	-17010 -17145	0 0	-0.9 -0.9	-10.7	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:51	-17145	0.1 0.2	-0.9 -0.9	-11.4 -19.1	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:52	-16470 -17145	0.4 0	-0.9 -0.9	-9.7	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:53	-17145	0.3 0.5	-0.8 -0.8	-10.3 -14.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:54	-17145 -17010	0.4 0	-0.8 -0.8	-11.2	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:55	-17010	0.4 0.4	-0.8 -0.7	-18.5 11.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:56	-16875 -16065	0.3 0	-0.8 -0.8	-10.7	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:57	-16740	0.5 0.3	-0.9 -0.8	-10.1 -15.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:22:58	-16605 -16470	0.2	-0.8	-14.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:22:59	-16335	0	-0.8	-18.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:00	-16065	0.2	-0.8	-3.4	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:01	-15930 -15795	0	-0.8	-1.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:02	-15525	0.3	-0.9	-9.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:03	-15255 -14985	0.5	-0.9	-9.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:04	-14715	0.3	-0.9	-11.4	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:05	-14445 -14175	0.2	-0.9	-10.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:06	-13905	0.2	-0.9	-8.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:07	-13500 -13095	0.2	-0.9	-10.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:08	-12690	0.2	-1.0	-9.1	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:09	-12285 -11610	0.4	-1.1	-8.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:10	-11070	0.3	-1.1	-16.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:11	-10530 -9855	0.3	-1.1	-15.6	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:12	-9180	0.4	-1.1	10.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:13	-8235 -7425	0.5	-0.9	-9.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:14	-6480	0.4	-0.8	-9.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:15	-5535 -4590	0.5	-0.7	-9.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:16	-3510	0.4	-0.9	-9.1	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:17	-2565 -1485	0.5	-0.9	-9.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:18	-270	0.5	-0.9	-8.7	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:19	810 1755	0.5	-0.8	-9.3	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:20	2835	0.4	-0.7	-15.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:21	3780 4590	0.4	-0.9	3.0	0	0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow



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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:23:22	5400	0.2	-0.8	-0.8	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:23	6210 7020	0.2 0.3	-0.7 -0.7	-0.7 -0.7	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:24	7560	0.2	-0.7	9.9	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:25	8235 8235	0.2 0.2	-0.8 -0.8	-18.5	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:26	9315	0	-0.9	-10.3	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:27	9720 10260	0 0.2	-0.8 -0.8	-10.3	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:28	10665	0.1	-0.8	-11.4	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:29	11070 11340	0.2 0	-0.8 -0.8	-11.2	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:30	11070	0.2	-0.8	-12.0	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:31	12015 12285	0.1 0	-0.9 -0.9	-11.4	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:32	12555	0	-0.9	-13.4	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:33	12825 12960	0.1 0	-0.9 -0.9	-12.0	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:34	13230	0	-0.9	-11.8	6.2	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:35	12690 13770	0 0	-0.9 -0.9	-13.0	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:36	13770	0.2 -0.1	-0.8 -0.8	-13.0 -12.4	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:37	13905 14040	0 0	-0.9 -0.9	-12.4	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:38	14040	0 0	-1.0 -1.1	-10.3 7.9	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:39	14175 13635	0 0	-1.2 -1.1	-8.3	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:40	14445	0 -0.2	-1.1 -1.0	5.9 9.7	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:41	14445 14580	0 0	-0.9 -0.9	9.7	0 0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:42	14715	0	-0.7	-14.0	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:43	14715	-0.2	-0.7	10.3	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:44	14715	0	-0.9	10.3	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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T ime (seconds)	ALTC (FEET)	Elevator Position Left (degrees)	Rudder Position (lower) (degrees)	Attition R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTPO (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:23:45	14580	-0.2	-0.9	11.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:46	14715	-0.1	-0.9	7.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:47	14715	0	-0.9	9.9	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:48	14715	-0.2	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:49	14850	-0.2	-0.9	-9.7	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:50	14850	0	-0.9	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:51	14850	-0.2	-0.9	-18.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:52	14715	-0.5	-0.7	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:53	14715	-0.6	-0.7	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:54	14715	-0.5	-0.8	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:55	14715	-0.5	-0.9	-5.7	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:56	14580	-0.5	-0.8	-18.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:57	14580	-0.5	-0.8	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:58	14580	-0.5	-0.8	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:23:59	14985	0.2	-0.7	-20.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:00	15120	0.2	-0.7	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:01	15255	0.3	-0.7	5.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:02	15390	0.2	-0.7	-10.3	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:03	15525	0.4	-0.7	-15.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:04	15660	0.4	-0.7	-18.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:05	15795	0.4	-0.7	-18.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:06	15930	0.3	-0.7	6.9	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:07	16065	0.3	-0.7	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:08	16200	0	-0.8	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:09	16335	-0.2	-0.8	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:10	16470	-0.2	-0.8	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:11	16605	-0.2	-0.8	-14.8	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:12	16740	-0.3	-0.9	-15.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:13	16875	0	-0.9	-16.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:14	17010	0.3	-0.8	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:15	17145	0.4	-0.7	-22.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow





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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:24:55	-15930 -16065	0.2 0.2	-0.9 -0.9	0.0	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:56	-16200	0.2	-0.8 -0.8 -0.8	11.0 11.4	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:57	-16335 -16605	0.5 0.3	-0.7 -0.8	10.3	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:58	-16740	0.2	-0.8 -0.8 -0.7	12.0 -16.6	0 0 0	0.0 6.2 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:24:59	-16740 -16875	0.2	-0.9 -0.9	2.2	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:00	-17010	0 0.3	-0.9 -0.9 -0.9	-21.5 -14.0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:01	-16335 -17145	0.4	-0.9 -0.8	-14.8	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:02	-17280	0.2 0.2	-0.9 -0.8 -0.9	-15.0 -20.9	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:03	-17415 -17415	0.2	-0.9 -0.9	-15.6	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Ext	Ext	Stow	Stow	Stow	Stow
20:25:04	-17550	0.4 0.1	-0.9 -0.9 -0.9	-17.4 -19.5	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:05	-17550 -16740	0.2	-0.9 -0.9 -0.9	-17.4	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:06	-17685	0 0.4	-0.9 -0.9 -0.9	-10.7 -19.5	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:07	-17685 -17685	0.2	-0.9 -0.9 -0.9	0.6	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:08	-17820	0 -0.2	-1.0 -1.0	1.2 13.0	0 0	5.9 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:09	-17820	-0.2	-1.1	-19.5	0	0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:10	-17820 -17010	0 0	-1.1 -1.0 -1.1	13.0 3.0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:11	-17820	0	-1.0 -1.1 -0.9	-3.0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:12	-17820 -17820	-0.1 0	-1.0 -0.9 -1.0	12.0 11.6	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:13	-17820	0.3	-0.9	12.6	0	0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:14	-17955 -17820	0.2 0.2	-0.9 -0.9 -0.9	-18.3 -26.6	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:15	-17010	0.3	-0.9	-17.4	0	0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:16	-17820 -17820	0.2 0.3	-0.9 -0.9 -0.9	-15.0 -17.0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:17	-17820	0.4	-0.9	-18.9	0	0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:18	-17820 -17820	0.4 0.3	-0.9 -0.9 -0.9	-15.6 -18.5	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow



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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:25:42	-12015 -11745	0.3	-0.9	-27.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:43	-11475	0.2	-0.3	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:44	-11070 -10530	0.2	-0.9	-16.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:45	-10125	0.3	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:46	-9885 -9315	0.2	-0.9	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:47	-8910	0.4	-0.9	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:48	-8370	0.3	-0.9	-29.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:49	-7155	0.3	-0.9	-29.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:50	-6615 -5805	0.5	-0.7	-19.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:51	-5400	0.3	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:52	-5265	0.1	-0.9	13.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:53	-4725 -3780	0.3	-0.9	-17.2	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:54	-3510	0.5	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:55	-3105 -2700	0.2	-0.7	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:56	-2295	0.2	-0.9	-16.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:57	-1890 -1485	0.1	-0.9	-17.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:58	-945	0.3	-0.9	-19.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:25:59	-540 0	0.2	-0.9	-18.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:00	405	0.2	-0.9	-17.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:01	945 1350	0.2	-0.8	-19.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:02	1890	0.2	-0.8	-19.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:03	1890 2365	0.2	-0.8	-18.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:04	2835	0.2	-0.9	-5.7	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:05	3375 3780	0	-0.9	12.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:26:06	4185	0	-0.9	12.6	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:07	4590 4725	0.2 0.2	-0.9 -0.9	-17.4 9.3	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:08	5400	0.2	-0.9	-22.5	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:09	5805 5940	0	-0.8 -0.9	-17.4 -18.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:10	5940	0.2	-0.9	-20.1	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:11	7020 7290	0.1 0	-1.0 -0.9	-26.4	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:12	7560	-0.2	-0.9	-18.0	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:13	8100 8640	0	-0.9 -0.9	-20.5	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:14	9045	0	-0.8	-19.5	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:15	9315 9720	0 0.2	-0.7 -0.8	-21.1	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:16	9990	0	-0.7	-22.5	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:17	10395 10800	0.2 0	-0.9 -0.9	10.3	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:18	11205	0.2	-0.9	8.3	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:19	11475 11880	0	-0.9 -0.9	3.2	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:20	12285	-0.2	-0.9	12.4	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:21	12555 12960	-0.3 -0.2	-0.9 -0.9	6.5	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:22	13365	0.2	-0.9	0.0	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:23	13770 14175	0.4 0.3	-0.9 -0.8	-26.6	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:24	14445	0.2	-0.8	11.6	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:25	14850 15120	0.2	-0.9 -0.9	-0.4	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:26	15525	0.2 0.3	-0.9 -1.0	-19.5 -17.0	0	0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:27	15795 16200	0.3	-0.9	-19.1	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:28	16470	0.3	-0.9	-18.0	0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow



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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
		0.5	-0.3 -0.7	-15.6	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct				
20:26:29	16875 17010	0.3	-0.6 -0.6	-4.3	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:30	17280	0.3	-0.6 -0.3	-11.4 12.0	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:31	17415 17550	0.2	-0.7 -0.7	3.9	0 0	0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:32	17820	0.3 0.2	-0.8 -0.8	-0.4 11.6	0 0	0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:33	17955 18090	0.2	-0.9 -0.9	-29.0	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:34	18090	0.4 0.2	-1.0 -1.1	-23.5 11.6	0 0	0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:26:35	18225	0.1	-1.1 -1.2	-19.9	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:36	18225 18360	0.2 0.2	-1.1 -1.1	-23.5 -22.1	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:37	18360	0.2	-0.9 -0.9	-17.4	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:38	18360 18360	0.2 0.2	-0.9 -0.8	-16.6 -18.0	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:39	18360	0.3	-0.7 -0.7	-20.5	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:40	18225 18225	0.3 0	-0.7 -0.7	-18.7 -3.7	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:41	17145	0.4	-0.8 -0.9	-17.8	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:42	17955 17820	0.2 0.2	-1.0 -1.1	-17.4 11.0	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:43	17685	0.5	-1.0 -1.0	-22.1	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:44	17415 17280	0.3 0.2	-0.9 -0.9	-21.7 -23.1	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:45	17010	0.3	-0.7 -0.8	-17.8	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:46	15930 16740	0.2 0.5	-0.8 -0.9	-27.0 -19.1	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:47	16470	0.3	-0.9 -0.9	-18.5	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:48	16335 16065	0.3 0.2	-0.9 -0.9	-15.6 -19.5	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:49	15795	0.1	-0.9 -0.9	-8.5	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:50	15660 14445	0.4 0.2	-0.9 -0.8	11.0 -19.5	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:51	15120	0.1	-0.7 -0.7	3.9	0 0	0 0	Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:26:52	14985	0	-0.8	-27.0	0 0	0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow



Time (seconds)	ALTC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Altitude Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:27:15	10935	0.2 0.2	-0.9 -0.9 -0.8	-6.5 -26.4	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:16	10800 10665	0.2 0.2	-0.8 -0.9 -0.9	10.3	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:17	10530	0.3 0.1	-0.3 -0.3 -0.8	-23.5 -23.1	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:18	10395	0.2	-0.9 -0.8 -0.8	-24.7	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:19	10260 10125	0.1 0.1	-0.9 -0.9 -0.9	-28.4 -29.4	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:20	10125	0	-0.9 -0.9 -0.9	-28.8	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:21	9990 9855	0 0	-0.9 -0.9 -0.8	-19.1 -19.1	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:22	9720	0	-0.8 -0.8 -0.8	-19.5	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:23	9720 9720	0 0	-0.8 -0.8 -0.8	-19.1 -19.5	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:24	9720	0	-0.9 -0.9 -0.9	11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:25	9720 9720	0 0	-0.9 -0.9 -0.9	-6.7 12.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:26	9585	0	-0.9 -0.9 -0.9	3.9	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:27	9450 9315	0 0.3	-0.9 -0.9 -0.9	12.6 8.3	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:28	9045	0.1	-0.9 -0.9 -0.8	10.7	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:29	8100 8640	0.2 0.2	-0.8 -0.8 -0.7	11.0 -28.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:30	8370	0.2	-0.7 -0.7 -0.7	-29.4	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:31	8100 7965	0.1 0.3	-0.7 -0.7 -0.7	-21.9 -29.8	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:32	7695	0.1	-0.7 -0.7 -0.8	-29.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:33	7425 6615	0 0.2	-0.7 -0.8 -0.8	-18.5 2.2	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:34	7020	0.1	-0.8 -0.8 -0.7	2.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:35	6750 6480	0.1 0.2	-0.8 -0.8 -0.7	8.3 8.9	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:36	6345	0	-0.7 -0.7 -0.7	1.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:37	6210 6210	0.1 0.1	-0.9 -0.9 -0.9	12.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:38	5535	0.2	-0.9 -0.9 -0.9	12.0 -27.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct Retrct Retrct	Trans Trans Trans	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Retrct Retrct Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:27:39	5940 5805	0 0	-0.9 -0.9 -0.9	-23.5	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:27:40	5670	0	-0.9 -0.9 -0.9	-27.6 -26.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:41	5535 5400	0.2 0.2	-0.9 -0.9 -0.9	-24.1	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:27:42	5400	0.2	37.8 -0.9 -0.9	-26.6 3.9	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:43	4860 4895	0.2 0.2	-0.9 -0.9 -0.9	4.3	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:44	4860	0.4	-0.9 -0.9 -0.9	12.0 11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:45	4725 4455	0.2 0.2	-0.9 -0.9 -0.9	13.0	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:46	4320	0.2	-0.9 -0.9 -0.9	8.3 12.4	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:47	4185 3645	0.1 0.2	-0.8 -0.9 -0.9	-5.7	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:48	3780	0	-0.9 -0.8 -0.9	11.0 11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:51	2700 2430	0.2	-0.8 -0.8 -0.8	-22.1	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:52	2295	0.3 0.2	-0.8 -0.8 -0.8	-19.1 -23.1	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:53	1890 1620	0.2	-0.8 -0.8 -0.8	-26.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:54	1350	0.2 0.2	-0.7 -0.8 -0.8	-19.5 -19.5	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:55	1080 810	0.2	-0.8 -0.8 -0.8	-19.5	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:56	540	0.1 0	-0.8 -0.8 -0.8	-16.0 -18.9	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:57	270 0	0.2	-0.9 -0.8 -0.9	-8.3	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:58	-270	0.2 0.1	-0.8 -0.8 -0.8	-19.5 11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:27:59	-540 -810	0	-0.8 -0.8 -0.8	11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:28:00	-945	0 0.2	-0.8 -0.8 -0.9	10.5 -29.4	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow
20:28:01	-1215	0	-0.9 -0.9	11.6	0 0 0	0 0 0	Retrct Retrct Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow	Stow Stow Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:28:02	-1485 -1620	0.1 0	-0.3 -0.3 -0.8	-21.9 12.0	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:03	-1890	0	-0.8 -0.9 -0.8	-30.0	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:04	-2160 -2295	0.1 0.2	-0.8 -0.8 -0.8	-20.1 -14.6	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:05	-2565	0.2	-0.8	-27.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:06	-2835 -2970	0.1 0.1	-0.8 -0.8 -0.8	-27.6 12.6	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:07	-3105	0.1	-0.9	12.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:08	-3240 -3510	0 0	-0.9 -0.9 -0.9	12.0 4.9	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:09	-3780	0.3	-0.9	10.3	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:10	-3915 -4185	0.4 0.1	-0.8 -0.7 -0.7	11.4 -26.6	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:11	-4320	0	-0.8 -0.8 -0.8	-13.0	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:12	-4455 -4725	0.2 0.2	-0.8 -0.8 -0.8	-22.1 -22.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:13	-4860	0.2	-0.9	-21.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:14	-5130 -5265	0.1 0	-0.8 -0.8 -0.8	-21.5 -20.9	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:15	-5400	0.2	-0.8 -0.8 -0.8	-20.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:16	-5535 -5670	0.2 0.3	-0.8 -0.8 -0.9	11.4 -21.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:17	-5805	0.5	-0.8 -0.9 -0.8	-19.1	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:18	-5940 -6210	0.2 0.2	-0.8 -0.8 -0.9	-29.8 13.0	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:19	-6210	0.2	-0.8 -0.8 -0.8	8.3	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:20	-5940 -6480	0.4 0.2	-0.8 -0.8 -0.8	-20.1	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:21	-5940	0.2	-0.9 -0.9 -0.8	-24.1 -23.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:22	-6615 -6750	0.1 0.3	-0.9 -0.8 -0.8	-21.1	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:23	-6885	0.3	-0.9 -0.9 -0.8	-19.5 -19.9	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:24	-7020 -6615	0 0	-0.8 -0.7 -0.8	-21.9	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:25	-7425	0.1	-0.8 -0.8	-18.3 -30.0	0 0	0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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T time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (lower) (degrees)	Attitude Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:28:26	-6885 -7695	0.2 0	-0.7 -0.7 -0.7	2.2	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:27	-7830	0.1	-0.7 -0.7 -0.7	-29.0 -19.1	0 0	0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:28	-7965 -8235	0 0	-0.7 -0.7 -0.7	-19.1	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:29	-8370	0.3	-0.7 -0.7 -0.7	-20.9 8.3	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:30	-8505 -8100	0 0	-0.7 -0.7 -0.7	6.5	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:31	-8910	0	-0.7 -0.7 -0.7	-18.9 -21.1	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:32	-9180 -9180	0.2 0.2	-0.7 -0.7 -0.7	-24.7	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:33	-9315	0.2	-0.7 -0.8 -0.8	-19.5 -28.4	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:34	-9585 -9720	0.1 0	-0.8 -0.7 -0.7	-20.5	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:35	-9180	0.2 0	-0.8 -0.7 -0.7	-23.1 -19.5	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:36	-9990 -10125	-0.2	-0.7 -0.7 -0.7	1.6	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:37	-10125	0 0	-0.8 -0.7 -0.7	12.6 9.9	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:38	-10125 -10260	0 0	-0.8 -0.8 -0.8	12.0	0 0 0	0.0 0.0 0.0	Retrct	Ext	Ext	Ext	Ext	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:39	-10260	0	-0.8 -0.8 -0.8	-7.9	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:40	-10260 -10260	0 0	-0.8 -0.8 -0.8	-23.5	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:41	-10395	0 0	-0.8 -0.9 -0.9	-21.1 -19.9	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:42	-10395 -10530	0 0	-0.8 -0.8 -0.8	-20.1	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:43	-10665	0.2	-0.8 -0.8 -0.9	-20.9 -14.6	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:44	-10800	0.2	-0.8 -0.8 -0.8	-26.8	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:45	-11070 -11205	0.2 0.1	-0.9 -0.8 -0.9	3.7 -19.1	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:46	-11475	0.6	-0.9 -0.9 -0.9	-10.3	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:47	-11745 -11880	0.4 0.3	-0.9 -0.9 -0.9	-20.1 -20.5	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:48	-12150	0.4	-0.9	-21.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:28:49	-12285 -12420	0.5 0.5	-0.9 -0.8 -0.8 -0.9	11.6 -18.5	0 0 0 0	0 0 0 0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:28:50	-12555	0.5	-0.9	-2.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:51	-12690 -12420	0.5 0.4	-0.9 -0.9 -0.9 -0.9	-20.5 -26.0	0 0 0 0	0 0 0 0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:28:52	-12285	0.2	-0.9	12.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:53	-12555 -13095	0.5 0.2	-1.0 -0.9 -0.9	4.9 6.9	0 0 0	0 0 0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:28:54	-13230	0.5	-0.8	12.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:55	-13365 -13365	0.5 0.5	-0.8 -0.8 -0.8	-20.9 -21.1	0 0 0	0 0 0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:28:56	-13365	0.5	-0.9	-20.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:57	-12960 -12555	0.4 0.5	-0.8 -0.9 -0.8	-19.5 -29.4	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:58	-13095	0.2	-0.9	-26.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:28:59	-12825 -12690	0.2 0	-0.8 -0.8 -0.7	-13.0 11.6	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:00	-12420	0	-0.7	9.3	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:01	-12150 -11880	-0.2 -0.2	-0.8 -0.8 -0.7	-21.5 -21.1	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:02	-11610	-0.2	-0.9	-19.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:03	-11340 -11070	-0.4 -0.4	-0.8 -0.8 -0.8	-19.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:04	-10125	-0.3	-0.8	-20.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:05	-10665 -10395	-0.2 -0.2	-0.8 -0.8 -0.8	-18.5	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:06	-10260	0	-0.7	-15.6 -18.3	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:07	-9990 -9990	-0.1 0	-0.8 -0.8 -0.7 -0.9	11.0	0 0 0 0	0 0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:08	-9855	0.2	-0.8	-29.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:09	-9180 -9990	0.2 0.2	-0.8 -0.8 -0.9 -0.8	-19.1	0 0 0 0	0 0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:10	-10125	0.3	-0.8 -0.8 -0.8	-30.0 -16.0	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:11	-10260 -10260	0.4 0.4	-0.8 -0.8 -0.7	-13.4	0 0 0	0 0 0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:12	-10395	0.5	-0.7	12.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
			-0.7	12.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.7		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:13	-10530 -9855	0.5 0.5	-0.7 -0.7	6.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:14	-10665	0.2	-0.7 -0.8	-19.5 11.0	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
			-0.9		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:15	-10800 -10800	0.3 0.3	-0.8 -0.9	-19.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:16	-10935	0.4	-0.8 -0.7	-20.5 -18.0	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
			-0.7		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:17	-10800 -10800	0.3	-0.7 -0.8	11.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:18	-9990	0.3 0.2	-0.8 -0.9	-21.9 -3.0	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:19	-10665 -10530	0.3	-0.8 -0.9	-21.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:29:20	-9855	0.4 0.2	-0.9 -0.8	-20.1 -18.5	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:21	-9990 -10125	0.2	-0.9 -0.7	7.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:22	-9855	0	-0.9 -0.9	-20.1 -20.1	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:23	-9045 -9450	0	-0.8 -0.9	-17.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:24	-9180	0	-0.8 -0.9	-19.5 -20.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:25	-8910 -8505	-0.4	-0.8 -0.9	9.9	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:26	-8505	-0.4	-0.9 -0.9	-21.5 11.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:27	-8235	-0.2	-0.8 -0.8	-26.6	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:28	-8100 -7830	-0.3 -0.3	-0.8 -0.7	-18.0 -19.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:29	-7695	-0.2	-0.8 -0.9	-3.7	0	0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:30	-7425 -7155	-0.3 -0.4	-0.9 -0.9	11.6 11.0	0	0	Retrct Retrct	Retrct Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:31	-7020	-0.3	-0.9	-18.3	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:32	-6750 -6750	-0.4 0	-0.9 -0.9	-19.1 -17.4	0	0	Retrct Retrct	Retrct Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:33	-6615	0.2	-0.8	-13.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:34	-6615 -6480	-0.2 -0.1	-0.9 -0.9	-28.0 -22.5	0	0	Retrct Retrct	Retrct Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:29:35	-6480	-0.3	-0.9 -0.9	-20.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow





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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Altitude R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:29:59	-10260	0.3	-0.3	-18.5	0	0.0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:00	-10530 -10530	0.3	-0.8	11.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:01	-9855	0.4	-0.3	10.3	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:02	-10665 -10800	0.2	-0.9	-20.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:03	-10800	0.1	-0.9	-23.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:04	-10800	0	-0.7	-19.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:05	-10665	0	-0.7	1.6	0	0.0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:06	-9720 -10395	-0.2	-0.8	-29.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:07	-10395	0	-0.3	-21.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:08	-10260 -10260	-0.1	-0.9	-21.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:09	-10260	-0.2	-0.9	9.3	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:10	-10125	-0.2	-0.8	-30.4	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:11	-9315 -10125	0	-0.8	-26.6 -13.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:12	-9990	-0.1	-0.8	13.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:13	-9990 -9990	0	-0.8	12.0 -10.7	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:14	-9990	0	-0.9	-26.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:15	-9990 -9315	0	-0.8	-22.5 -28.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:16	-9990	0	-0.8	-18.3	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:17	-9990 -9990	0	-0.8	-14.4 0.6	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:18	-9990	0	-0.8	-19.1	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:19	-10125 -10125	0	-0.9	-26.0 -18.9	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:20	-10260	-0.2	-0.9	6.5	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:21	-10260 -10395	-0.3	-0.8	11.6 12.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:30:22	-10530	0	-0.9	-27.0	0	0.0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:30:23	-10665 -10800	-0.1 0	-0.9 -0.9 -0.9	-24.7 -18.3	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:24	-11070	0	-0.8 -0.8 -0.8	9.9	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:25	-11205 -11340	0 0	-0.8 -0.8 -0.7	-20.1 -19.9	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:26	-11475	0.2	-0.7 -0.8 -0.8	1.0	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:27	-11610 -11745	-0.2 -0.2	-0.9 -0.8 -0.8	10.3 -9.3	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:28	-12015	0	-0.9 -0.8 -0.9	-19.5	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:29	-12150 -12285	0 0.2	-0.9 -0.8 -0.8	-24.9	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:30	-12420	0	-0.8 -0.8 -0.8	-17.4 -29.4	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:31	-12555 -12825	-0.1 -0.2	-0.8 -0.8 -0.8	-23.5	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:32	-12825	0	-0.9 -0.9 -0.9	-19.1 -17.8	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:33	-13095 -13230	0 0	-0.8 -0.8 -0.8	-23.1	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:34	-13500	0	-0.8 -0.8 -0.8	-22.9 -18.5	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:35	-13635 -13905	0 0	-0.8 -0.8 -0.9	9.7	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:36	-14040	0.2	-0.9 -0.9 -0.9	-7.9 11.6	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:37	-14175 -14445	0 0.3	-0.9 -0.9 -0.9	2.2	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:38	-14715	0.3	-0.9 -0.9 -0.9	-22.1 -21.9	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:39	-14985 -15120	0.3 0.3	-0.8 -0.8 -0.8	-19.5	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:40	-15390	0.2	-0.8 -0.9 -0.9	-2.6 13.0	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:41	-15390 -15660	0.1 0.3	-0.9 -0.8 -0.9	-19.5	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:42	-15660	0.3	-0.8 -0.8 -0.8	-20.5 -21.9	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:43	-15795 -15930	0.2 0.2	-0.9 -0.9 -0.9	-8.1	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:44	-14985	0.2 0.3	-0.9 -0.9 -0.9	-18.5 -26.4	0 0 0	0 0 0	0.0 0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:45	-15930	0.2	-0.9 -0.8	-27.8	0 0	0 0	0.0 0.0	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:30:46	-15930	0.3	-0.9	-21.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
		0	-0.9	-17.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:47	-15930	0	-0.8	-14.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-15930		-0.8		0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:48	-15795	0	-0.9	-15.2	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
		-0.1	-0.9	-17.8	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:49	-14985	0	-0.8	13.6	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-15795		-0.9		0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:50	-15795	-0.2	-0.8	5.9	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
		0.2	-0.9	-4.3	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:51	-15795	-0.1	-0.9	11.4	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-15795		-0.9		0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:52	-15795	0	-0.9	-23.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
		0	-0.8	-19.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:53	-15930	0	-0.9	-18.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.8		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:54	-15120	0.1	-0.8	-20.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-16200	0.2	-0.9	-17.0	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:55	-16470	0.2	-0.8	12.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.8		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:56	-16605	0.3	-0.7	5.9	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-16740	0.5	-0.7	-19.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:57	-17010	0.4	-0.7	-10.3	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.7		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:30:58	-17145	0.5	-0.7	-19.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-16605	0.4	-0.7	-18.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:30:59	-17550	0.3	-0.7	-23.7	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.7		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:00	-17685	0.4	-0.8	-17.2	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-17820	0.4	-0.9	-19.9	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:31:01	-18090	0.3	-0.9	-23.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.9		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:02	-18225	0.3	-0.8	-19.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-18360	0.2	-0.8	-19.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:31:03	-17550	0.4	-0.7	-3.7	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.7		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:04	-18495	0.2	-0.8	4.9	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-18630	0.2	-0.8	11.0	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:31:05	-18765	0	-0.8	13.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.8		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:06	-18765	0	-0.8	-19.1	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-18900	0.2	-0.8	-18.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:31:07	-18900	0.4	-0.9	-18.0	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.9		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:08	-19035	0.4	-0.8	7.5	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
	-19035	0.4	-0.8	-18.5	0	0	Retrct	Retrct							Stow	Stow	Stow	Stow
20:31:09	-19035	0.2	-0.8	-5.3	0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
			-0.8		0	0	Retrct	Retrct	Trans	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow

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Time (seconds)	ALIC (FEET)	Elevator Position Left (degrees)	Rudder Position (Lower) (degrees)	Aileron Position R Inbd (degrees)	Flap pos Trailing Inbd (degrees)	Flap pos Trailing OUTBD (degrees)	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
20:31:10	-19170 -19170	0.2 0.4	-0.8 -0.8 -0.8	0.0 -17.8	0 0 0	0.0 0.0 0.0	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Retrct	Stow	Stow	Stow	Stow
20:31:11	-19170	0.2	-0.8 -0.8 -0.8	-24.1	0 0 0	0.0 0.0 0.0	Retrct Retrct	Retrct Retrct	Trans Trans	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Retrct Retrct	Stow Stow	Stow Stow	Stow Stow	Stow Stow
20:31:12																		

TWA Flt. 800

B747- 131, Landing at JFK  
TABJFK1, Revised: December 22, 1999

National Transportation Safety Board

TWA Flt. 800, B747-131, Landing At JFK  
 TABJFK1, Revised: December 22, 1999, National Transportation Safety Board

Time	MSL Alt	IAS	Pitch Angle	Elevator Position Right	Mag. Heading	Roll Angle	Rudder Position (upper)	Angle of Attack	EPR Engine 1	EPR Engine 2	EPR Engine 3	EPR Engine 4	Long. Accel	Vert. Accel.	YHF	Pitch Trim Stab Pos
(seconds)	(FEET)	(KNOTS)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(ratio)	(ratio)	(ratio)	(ratio)	(g)	(g)		(degrees)
0.0	612.00		140	1.4	308	-1	-0.18	7	1.02	1.04	1.04	1.07	0.05	0.98	Off	6
	632.00			1.8	306	-1	0.00	7					0.05	0.98		
							0.09	7					0.05	0.99		
1.0	622.00		141	1.8	306	-1	0.18	7	1.02	1.04	1.04	1.07	0.05	1.00	Off	6
			140	0.0			0.18	7	1.02	1.04	1.04	1.07	0.05	1.01	Off	6
				0.0			0.27	7					0.06	1.01		
													0.06	1.02		
2.0	617.00		141	2.2	306	-2	0.27	7	1.02	1.04	1.03	1.07	0.06	1.03	Off	6
	607.00			2.5	306	-2	0.36	7					0.06	1.04		
							0.54	7					0.06	1.04		
													0.06	1.04		
3.0	602.00		141	2.9	305	-2	0.54	7	1.02	1.04	1.04	1.07	0.06	1.05	Off	6
			142	0.0			0.45	7	1.03	1.04	1.04	1.08	0.06	1.05	Off	6
							0.36	7					0.07	1.05		
4.0	592.00		142	2.9	305	-3	0.54	7	1.04	1.05	1.05	1.08	0.07	1.05	Off	6
	587.00			2.9	305		0.63	7					0.07	1.06		
							0.90	7					0.07	1.06		
													0.07	1.05		
													0.06	1.04		
5.0	577.00		134	2.9	305	-2	0.99	7	1.04	1.05	1.05	1.09	0.07	1.03	Off	6
			141	-1.6		-3	0.99	7	1.04	1.05	1.05	1.09	0.06	1.02	Off	6
							0.99	6					0.06	1.00		
6.0	572.00		141	2.5	305	-2	0.99	7	1.04	1.05	1.05	1.09	0.06	0.99	Off	6
	567.00				305		1.08	7					0.06	0.98		
							1.08	7					0.06	0.97		
													0.06	0.98		
													0.06	0.98		
7.0	557.00		141	2.2	305	-2	1.08	7	1.04	1.05	1.05	1.09	0.06	0.98	Off	6
			141	2.5		-1	1.08	7	1.04	1.05	1.05	1.09	0.06	0.98	Off	6
							0.99	7					0.06	0.99		
													0.06	1.01		
8.0	552.00		142	2.5	305	-1	0.72	7	1.04	1.05	1.05	1.09	0.06	1.02	Off	6
	547.00						0.54	7					0.07	1.02		
							0.72	7					0.06	1.03		
													0.06	1.02		
9.0	537.00		142	2.2	305	-1	0.72	7	1.04	1.05	1.05	1.09	0.06	1.01	Off	6
			134	2.2	305	-1	0.72	7	1.04	1.05	1.05	1.09	0.06	1.00		6
							0.72	6					0.06	0.99		
													0.06	0.98		
10.0	527.00		142	1.8	305	-1	0.90	6	1.04	1.05	1.05	1.09	0.06	0.98	Off	6
	522.00						0.90	6					0.06	0.98	Off	
							0.99	6					0.05	0.98		
11.0	517.00		142	1.4	305	0	0.99	6	1.04	1.05	1.09	1.09	0.05	0.97		6
				1.1	305	0	1.08	6	1.04	1.05	1.05	1.08	0.05	0.97	Off	6
							1.08	6					0.05	0.97		
													0.05	0.98		
12.0	507.00		142	1.1	305	0	0.90	6	1.04	1.05	1.05	1.09	0.05	0.98	Off	6
	497.00		142				0.90	6					0.05	0.98	Off	
							0.72	6					0.05	0.98		
													0.05	0.98		
													0.05	0.98		
13.0	487.00		142	1.1	305	0	0.72	6	1.04	1.05	1.05	1.09	0.05	0.98	Off	6
				-0.8	305	0	0.81	6	1.04	1.05	1.05		0.05	0.98		6
				-0.3			0.90	6					0.05	0.98		
													0.06	0.99		
14.0	477.00		142	1.4	305	0	1.08	7	1.04	1.05	1.05	1.08	0.06	1.00	Off	6
	467.00		136				1.08	7				1.08	0.06	1.00	Off	
							0.99						0.06	1.03		
													0.06	1.03		
													0.06	1.03		
15.0	457.00		143	1.4	305	1	0.99	7	1.04	1.05	1.05	1.08	0.06	1.03	Off	6
				1.8	305	1	0.90	7	1.04	1.05			0.06	1.04		6
				-0.4			0.90	7					0.06	1.03		
													0.06	1.03		
16.0	442.00		144	2.2	305	1	0.72	7	1.04	1.05	1.05	1.08	0.06	1.02	Off	6
	437.00		143				0.54	7				1.08	0.06	1.02	Off	
							0.54						0.06	1.03		
													0.06	1.04		
													0.06	1.03		
17.0	432.00		144	2.2	305	1	0.36	6	1.04	1.05	1.05	1.08	0.06	1.03	Off	6
				2.2	305	0	0.27	6	1.04				0.06	1.02		6
							0.18	7					0.06	1.02		
18.0	422.00		142	2.2	305	0	0.27	7	1.04	1.05	1.05	1.08	0.06	1.01	Off	6
	412.00		142				0.36	8		1.05	1.04	1.08	0.06	1.00	Off	
													0.06	1.00		
													0.06	1.02		
													0.07	1.03		
19.0	402.00		134	2.2	305	0	0.45	7	1.04	1.05	1.05	1.08	0.07	1.04	Off	6
				2.2	305	1	0.45	7					0.06	1.07		6
													0.06	1.05		
							0.54	7					0.06	1.03		
							0.54	7					0.06	1.01		
							0.54	7	1.04	1.05	1.05	1.08	0.06	1.01	Off	6
							0.54	7	1.04	1.05	1.05	1.08	0.06	1.00	Off	
													0.06	0.99		
													0.06	0.98		
													0.06	0.98		
21.0	377.00		142	1.1	306	1	0.54	6	1.04	1.05	1.04	1.08	0.05	0.97	Off	6
				0.7	306	1	0.54	6					0.05	0.98		6
							0.54	6					0.05	0.98		
							0.54						0.05	0.98		
													0.05	0.98		
22.0	367.00		144	0.7	306	0	0.54	6	1.04	1.04	1.04	1.08	0.05	0.98	Off	6
			144				0.54	6	1.03	1.04	1.04	1.08	0.05	0.98	Off	
													0.05	1.00		
													0.05	1.00		
23.0	357.00		144	1.4	306	0	0.54	7	1.03	1.04	1.04	1.08	0.06	1.02	Off	6
	352.00			1.4	306	0	0.54	7					0.06	1.04		7
							0.72	7					0.06	1.05		
							0.81						0.06	1.05		
													0.06	1.05		
24.0	342.00		136	1.8	306	-1	0.72	7	1.03	1.04	1.04	1.08	0.05	1.04	Off	6
			144				0.63	6	1.03	1.04	1.04	1.08	0.06	1.03	Off	
								6					0.06	1.03		

TWA Flt. 800, B747-131, Landing At JFK  
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Time	MSL Alt	IAS	Pitch Angle	Elevator Position Right	Mag. Heading	Roll Angle	Rudder Position (upper)	Angle of Attack	EPR Engine 1	EPR Engine 2	EPR Engine 3	EPR Engine 4	Long. Accel	Vert. Accel.	VHF	Pitch Trim Stab Pos
(seconds)	(FEET)	(KNOTS)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(ratio)	(ratio)	(ratio)	(ratio)	(g)	(g)		(degrees)
25.0	332.00 327.00	144	1.8 1.8	-1.0 -1.4	306 306	0 0	0.90 0.99 1.26	6 6 6	1.03	1.04	1.04	1.08	0.06 0.05 0.05 0.05 0.05	1.03 1.03 1.03 1.02 1.01	Off	7 7
26.0	317.00 144	144 144	1.8	-1.3	306	0	1.26 1.26	6 6	1.03 1.03	1.04 1.04	1.04 1.04	1.08 1.08	0.05 0.05	1.01 1.00	Off Off	7
27.0	307.00 302.00	144	1.4 1.4	-1.5 -0.5	306 306	0 0	1.17 1.08 0.81	6 6 6	1.03	1.04	1.04	1.08	0.05 0.05 0.05 0.05 0.05	1.00 1.00 0.98 0.98 0.99	Off	7 6
28.0	292.00	144	1.4	0.0	306	0	0.81	6	1.03	1.04	1.03	1.08	0.05	0.98	Off	7
		142					0.63 0.36	6 6	1.03	1.04	1.03	1.08	0.04 0.05 0.05 0.05	0.98 0.98 0.99	Off	7
29.0	282.00 272.00	142	1.8 2.5	0.0 -0.3	306 306	-1 -2	0.00 0.00 0.00	7 7 7	1.03	1.04	1.03	1.08	0.05 0.05 0.06 0.06	1.00 1.03 1.04 1.05	Off	7 7
30.0	262.00	142 142	2.9	-1.3	306	-2	0.00 0.18 0.18	8 8 8	1.03 1.03	1.04 1.04	1.03 1.03	1.08 1.07	0.06 0.07 0.08 0.08 0.07	1.07 1.08 1.11 1.12 1.12	Off Off	7
31.0	252.00 247.00	146	3.2 2.9	-2.5 -3.1	306 306	-3 -2	0.09 0.27 0.72	9 8 6	1.03	1.04	1.03	1.07	0.08 0.07 0.07	1.11 1.11 1.13	Off	7 7
32.0	247.00	144 144	2.2	-3.3	306	-1	0.54 1.17 1.53	6 6 6	1.03 1.03	1.04 1.04	1.03 1.03	1.07 1.07	0.06 0.05 0.05 0.04 0.04 0.03	1.13 1.08 1.01 0.98 0.94 0.94	Off Off Off	7
33.0	242.00 222.00	144	1.4 1.8	-0.4 -0.2	306 309	0 0	2.07 2.07	5 6	1.03	1.04	1.03	1.07	0.04 0.04	0.93 0.95	Off	7
34.0	222.00	143 142	1.8	-0.2	306	0	2.07 1.44 0.72	6 6 6	1.03 1.03	1.04 1.04	1.03 1.03	1.07 1.07	0.04 0.04 0.04 0.05 0.05 0.05	0.96 0.97 0.98 0.98 1.00 1.00	Off Off Off	7 7
35.0	222.00 212.00	142	2.2 2.5	-0.2 -2.2	306 306	-1 -1	0.00 0.00 0.18	7 6 8	1.03	1.04	1.03	1.06	0.05 0.05 0.06 0.05	1.00 1.03 1.05 1.04	Off	7
36.0	202.00	143 144	2.5	-2.4	306	-1	0.36 0.27 0.18	6 6 6	1.03 1.03	1.04 1.04	1.03 1.03	1.07 1.07	0.06 0.06 0.05 0.05 0.04	1.05 1.04 1.03 0.99 0.97	Off Off	7 7
37.0	197.00 192.00	142	2.2 1.8	-1.6 -0.5	306 306	-1 0	0.54 0.90 1.08	7 7 6	1.03	1.03	1.03	1.07	0.04 0.04 0.05 0.05 0.04	0.98 0.99 0.99 0.99	Off	7
38.0	172.00	142 142	1.8	-1.1	309	-1	1.08 0.90 0.54	5 7 8	1.03 1.03	1.04 1.03	1.03 1.03	1.07 1.07	0.04 0.04 0.05 0.05	0.98 0.97 0.98 0.99	Off Off	7 7
39.0	172.00 162.00	144	1.8 1.8	-0.5 0.0	306 306	-1 -1	0.36 0.54 0.54	6 6 7	1.03	1.03	1.03	1.07	0.05 0.06 0.05 0.05 0.05	1.02 1.03 1.02 1.03 1.03	Off	7
40.0	162.00	142 142	2.2	-1.5	306	-1	0.72 0.81 0.72	7 6 6	1.02 1.02	1.03 1.03	1.03 1.02	1.07 1.07	0.05 0.05 0.05	1.03 1.03 1.04	Off Off	7 7
41.0	152.00 142.00	142	2.2 2.2	-1.5 -0.2	306 306	-1 0	1.26 1.53 1.71	6 6 6	1.02	1.03	1.02	1.07	0.05 0.04 0.04 0.04 0.04	1.02 0.99 0.98 0.98	Off	7
42.0	137.00	142 140	2.2	-0.3	305	0	1.71 1.08	6 7	1.02 1.02	1.03 1.03	1.02 1.02	1.07 1.07	0.05 0.04	0.99 1.01	Off Off	7 7
43.0	122.00 117.00	140	2.5 2.5	0.0	308 305	0 -1	0.63 0.72 0.54	8 7 7	1.02	1.03	1.02	1.07	0.05 0.05 0.06 0.06 0.06	1.02 1.01 1.06 1.06 1.05	Off	7
44.0	107.00	142 140	2.5	-0.8 -0.4	305	-1	0.18 0.00 0.09	7 7 7	1.02 1.02	1.03 1.03	1.02 1.02	1.07 1.07	0.05 0.05 0.05	1.02 1.02 1.02	Off	7 7
45.0	102.00 92.00	142	2.5 2.9	0.9	305 305	-1 -1	0.45 0.54 0.63	7 7 7	1.02	1.03	1.02	1.07	0.05 0.06 0.06 0.06	1.02 1.04 1.04 1.05	Off	7
46.0	87.00	140 140	2.9	1.1 0.0	305	-1	0.72 0.54 0.72	7 7 7	1.02 1.02	1.03 1.03	1.02 1.02	1.07 1.07	0.06 0.06 0.06 0.06	1.05 1.04 1.04 1.03	Off Off	7 7
47.0	77.00 72.00	140	2.9 2.9	0.0	305 308	0	1.26 1.08 0.45	8 7 7	1.02	1.03	1.02	1.07	0.06 0.06 0.07	1.04 1.04 1.02	Off	7
48.0	62.00	138 142	2.9	0.6 2.5	305	-1 -1	0.54 1.17 1.53	7 7 8	1.02 1.02	1.03 1.03	1.02 1.02	1.07 1.07	0.06 0.05 0.06 0.06 0.06	1.02 1.02 1.03 1.02 1.01	Off Off	7 7
49.0	57.00 52.00	140	3.2	2.7	305 306	0	1.62 1.53	7 7	1.02	1.03	1.03	1.07	0.05 0.06	1.03 1.01	Off	7



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Time	MSL Alt	IAS	Pitch Angle	Elevator Position Right	Mag. Heading	Roll Angle	Rudder Position (upper)	Angle of Attack	EPR Engine 1	EPR Engine 2	EPR Engine 3	EPR Engine 4	Long. Accel	Vert. Accel.	YHF	Pitch Trim Stab Pos (degrees)
(seconds)	(FEET)	(KNOTS)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(ratio)	(ratio)	(ratio)	(ratio)	(g)	(g)		
							2.52	7					0.07	1.01		
													0.06	1.04		
													0.06	1.04		
50.0	47.00	139	3.6	4.1	306	1	2.61	7	1.02	1.03	1.03	1.07	0.06	1.05	Off	7
		138	3.6	2.0		1	4.32	7	1.02	1.03	1.02	1.07	0.07	1.06	Off	7
							7.92	7					0.06	1.06		
51.0	42.00	134	4.0	6.3	307	1	9.27	7	1.02	1.03	1.03	1.07	0.07	1.05		7
	37.00						6.75	8					0.07	1.01		
							-0.63	8					0.08	1.02		
													0.08	1.06		
52.0	37.00	136	4.3	3.3	307	0	-1.53	7	1.02	1.03	1.03	1.07	0.09	1.11	Off	7
		134	5.0	4.6	311	0	0.18	8	1.02	1.03	1.03	1.07	0.09	1.08		7
							0.99	6					0.09	1.09		
													0.09	1.05		
53.0	37.00	134	5.0	7.1	309	-1	0.90	7	1.00	1.01	1.01	1.04	0.09	1.05	Off	7
	32.00						0.72	6					0.08	1.03	Off	
							0.72	6					0.08	1.02		
													0.07	1.01		
54.0	27.00	132	5.0	6.5	309	-1	0.90	7	1.00	1.01	1.01	1.03	0.07	1.03		7
			5.4	3.6	309	-1	1.35	7	1.01	1.01	1.01	1.03	0.06	1.05	Off	7
							1.35	7					0.06	1.03		7
													0.06	1.02		
55.0	27.00	133	5.4	6.9	309	-1	1.17	7	1.00	1.01	1.01	1.03	0.06	1.03		7
	22.00	132					1.17	8					0.06	1.04	Off	
							1.26	7					0.06	1.02	Off	
													0.06	1.02		
													0.05	1.04		
56.0	22.00	132	5.0	4.9	308	-1	1.17	7	1.00	1.01	1.01	1.03	0.06	1.05		7
			4.7	5.0	307	-1	0.81	7	1.00	1.01	1.01	1.03	0.04	1.03	Off	7
													0.04	1.03		7
							0.54	7					0.03	1.06		
57.0	22.00	130	4.3	5.6	307	0	4.41	7	1.01	1.01	1.01	1.03	0.05	1.06		7
	27.00	124					5.49	6					0.04	1.00	Off	
							5.40	6					0.03	1.00	Off	
													0.00	1.01		
													0.01	0.99		
58.0	22.00	128	4.3	5.3	307	1	6.21	6	1.01	1.01	1.01	1.02	0.01	0.96		7
			4.3	5.1	307	3	7.65	6	1.00	1.01			0.00	0.99	Off	7
							7.83	5					0.02	1.02		
													0.00	1.13		
59.0	27.00	129	4.3	0.4	308	3	7.83	5	1.00	1.01	1.01	1.02	0.00	1.07		7
	27.00	124					7.20	6					0.00	1.05	Off	
							2.70						0.02	1.06	Off	
													0.01	1.00		
													0.01	1.01		
													0.00	0.96		
60.0	27.00	124	4.7	-0.8	309	4	2.88	6	1.01	1.01	1.01	1.05	-0.01	0.97	Off	7
			4.3	2.9	310	4	3.60	7	1.01				-0.01	0.97		7
							6.93	6					-0.02	0.95		
													-0.01	0.98		
61.0	22.00	124	4.3	4.3	310	2	6.93	6	1.01	1.02	1.01	1.05	-0.02	1.01	Off	7
	22.00	124					11.07	5		1.03	1.01	1.06	0.00	1.06	Off	
													-0.02	1.08		
													-0.01	1.09		
													-0.03	1.04		
62.0	22.00	118	5.0	2.3	310	0	11.97	5	1.02	1.03	1.01	1.07	-0.07	1.00	Off	7
			5.0	4.4	311	-1	10.80	6					-0.07	1.01		7
							4.50	7					-0.06	1.00		
							6.66	7					-0.07	1.00		
63.0	22.00	120	5.0	6.8	311	-1	12.69	5	1.07	1.03	1.01	1.11	-0.06	1.03	Off	7
	22.00	120					14.94	7	1.15	1.04	1.01	1.17	-0.06	1.00	Off	
													-0.07	0.99		
													-0.07	1.01		
64.0	22.00	110	5.0	7.4	311	-2	12.60	5	1.19	1.04	1.01	1.22	-0.07	1.06	Off	7
			5.4	3.2	313	-2	13.05	5					-0.05	1.08		7
							7.38	5					-0.07	1.05		
							3.60						-0.07	0.99		
													-0.06			
65.0	17.00	112	5.0	9.2	312	-1	2.52	6	1.23	1.04	1.01	1.25	-0.04	0.97	Off	7
		110					5.04	6	1.24	1.05	1.01	1.25	-0.04	1.02	Off	
								5					-0.04	1.07		
													-0.03	1.02		
66.0	17.00	106	4.7	11.1	312	0	6.12	6	1.25	1.06	1.01	1.26	-0.04	1.01	Off	7
	17.00		5.0	11.4	311	1	11.61	6					-0.03	1.00		7
							13.05	5					-0.04	1.06		
							13.77						-0.04	1.02		
													-0.03	0.98		
67.0	22.00	105	5.4	9.7	311	1	14.76	7	1.25	1.06	1.01	1.27	-0.03	1.03	Off	7
		110					17.01	7	1.26	1.07	1.01	1.27	-0.03	1.02	Off	
								6					-0.02	1.03		
													-0.03	0.98		
68.0	17.00	104	5.8	8.9	310	0	16.56	7	1.25	1.09	1.01	1.27	-0.04	1.04	Off	7
	17.00		5.8	7.3	310	0	14.67	5					-0.03	1.06		7
							14.31	6					-0.01	0.96		
													-0.02	1.01		
													-0.02	1.03		
69.0	17.00	100	5.0	10.7	310	1	14.22	7	1.26	1.11	1.01	1.26	-0.01	1.01	Off	7
		101					17.10	6	1.23	1.11	1.01	1.25	-0.02	0.99	Off	
							18.45	6					-0.02	1.02		
													-0.01	1.06		
70.0	22.00	101	4.3	11.4	310	1	16.02	6	1.22	1.12	1.01	1.23	-0.02	0.98	Off	7
	17.00		4.0	11.3	310	1	16.74	5					-0.03	1.00		7
							16.83	5					-0.02	1.04		
													-0.04	1.01		
71.0	17.00	102	3.2	11.6	311	1	17.64	5	1.21	1.12	1.01	1.24	-0.04	0.96	Off	7
		93					25.29	3	1.21	1.12	1.01	1.24	-0.04	1.01	Off	
							25.83	3					-0.04	1.03		
													-0.05	1.02		
													-0.03			
72.0	22.00	90	2.9	8.6	311	0	25.38	3	1.21	1.12	1.01	1.24	-0.05	1.05	Off	7
	22.00		1.8	7.1	311	0	25.38	4					-0.04	1.02		7
							25.29	4					-0.05	0.97		
													-0.05	0.98		
73.0	22.00	96	0.4	8.7	311	0	26.01	4	1.21	1.13	1.01	1.24	-0.06	0.98	Off	7
		92					26.46	3	1.21	1.13	1.01	1.23	-0.06	1.03	Off	
							26.82	3					-0.06	1.02		
													-0.08	0.99		
													-0.10	1.03		

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Time	MSL Alt	IAS	Pitch Angle	Elevator Position Right	Mag. Heading	Roll Angle	Rudder Position (upper)	Angle of Attack	EPR Engine 1	EPR Engine 2	EPR Engine 3	EPR Engine 4	Long. Accel	Vert. Accel.	YHF	Pitch Trim Stab Pos
(seconds)	(FEET)	(KNOTS)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(ratio)	(ratio)	(ratio)	(ratio)	(g)	(g)		(degrees)
74.0	17.00		92	-0.7	5.8	312	-1	21.33	1.21	1.13	1.01	1.24	-0.09	1.01	Off	7
	22.00			-0.7	-0.2	312	-1	20.43					-0.10	1.00		7
								19.71					-0.13	1.04		
75.0	22.00		88	-0.7	-4.8	312	-1	14.04	1.17	1.13	1.01	1.19	-0.16	0.99	Off	7
			90					1.08	1.13	1.13	1.01	1.16	-0.14	1.00	Off	
								1.17					-0.16	1.03		
													-0.13	0.98		
76.0	22.00		86	-1.1	-7.6	312	-1	54.36	1.11	1.12	1.01	1.15	-0.14	1.00		
	22.00			-1.1	-7.3	312	0	7.02					-0.15	1.03	Off	7
								10.53					-0.14	1.00		
													-0.14	0.99		
77.0	22.00		82	-1.1	-7.6	311	0	12.96	1.10	1.12	1.01	1.14	-0.18	1.00	Off	7
			78					8.73	1.09	1.12	1.01	1.14	-0.20	1.00	Off	7
								4.95					-0.21	1.03		
													-0.18	1.01		
78.0	22.00		77	-1.1	-7.0	311	0	9.99	1.08	1.12	1.01	1.13	-0.18	0.97		
	27.00			-1.1	-7.5	311	-1	10.26					-0.20	1.01	Off	7
								3.96					-0.22	1.01		
													-0.23	1.01		
													-0.23	1.03		
79.0	27.00		74	-1.1	-12.1	312	-1	0.54	1.07	1.11	1.01	1.13	-0.21	1.01	Off	7
			74					1.71	1.07	1.11	1.01	1.13	-0.19	1.00	Off	7
								0.18					-0.20	1.00		
													-0.20	1.00		
80.0	22.00		68	-1.1	-12.6	312	-1	-0.90	1.07	1.11	1.01	1.13	-0.18	0.99		
	22.00			-1.1	-12.7	312	-1	-2.25					-0.17	0.98	Off	7
								-0.27					-0.15	1.03		
													-0.14	1.03		
													-0.12	0.99		
81.0	27.00		70	-1.1	-11.8	312	-1	2.16	1.07	1.11	1.01	1.13	-0.16	1.03	Off	7
			66					3.69	1.07	1.11	1.01	1.13	-0.19	1.01	Off	7
								3.78					-0.23	0.98		
													-0.27	1.06		
													-0.29	1.00		
82.0	27.00		61	-1.1	-11.9	311	-1	3.42	1.04	1.09	1.01	1.11	-0.29	0.97	Off	7
	27.00			-1.1	-10.4	311	-1	3.06					-0.26	1.04		
								2.88					-0.22	1.00		
													-0.19	1.02		
83.0	22.00		62	-1.1	-6.9	311	-1	6.48	1.02	1.07	1.01	1.09	-0.16	1.01	Off	7
			60					7.74	1.01	1.05	1.01	1.10	-0.19	1.00	Off	7
								5.49					-0.20	1.00		
													-0.21	1.02		
													-0.21	0.99		
84.0	27.00		57	-1.1	-4.5	311	-1	3.78	1.01	1.04	1.01	1.09	-0.22	1.00	Off	7
	27.00			-1.1	-3.2	311	-1	3.24					-0.23	1.03		
								0.36					-0.25	1.00		
													-0.26	0.99		
85.0	27.00		54	-1.1	-3.9	311	-1	-0.54	1.00	1.03	1.01	1.09	-0.27	1.02	Off	7
			52					-0.72	1.01	1.03	1.01	1.09	-0.27	1.03	Off	7
								-0.45					-0.27	1.00		
													-0.30	1.02		
													-0.32	1.04		
86.0	27.00		49	-1.1	-4.6	311	-1	0.18	1.01	1.02	1.01	1.09	-0.33	1.01	Off	7
	27.00			-1.1		311	-1	0.63					-0.29	1.00		
								1.17					-0.27	1.02		
													-0.27	0.99		
87.0	27.00		46	-1.1	-4.6	311	-1	1.17	1.01	1.02	1.01	1.07	-0.27	1.02	Off	7
			44		-4.5			1.17	1.01	1.02	1.01	1.06	-0.26	1.00	Off	7
								1.26					-0.25	0.98		
													-0.25	1.03		
													-0.26	1.00		
88.0	27.00		43	-1.1	-4.3	311	-1	1.08	1.01	1.02	1.01	1.05	-0.26	1.00	Off	7
	27.00			-1.1		311	-1	1.08					-0.26	1.01		
								1.35					-0.25	1.00		
													-0.25	1.00		
													-0.24	1.00		
89.0	22.00		43	-1.1	-4.3	311	-1	1.62	1.01	1.01	1.01	1.05	-0.23	1.00	Off	7
			43		-3.6			2.07	1.00	1.01	1.01	1.04	-0.23	1.00	Off	7
								2.25					-0.22	1.02		
													-0.21	1.01		
90.0	22.00		43	-1.1	-2.8	310	-1	2.43	1.00	1.01	1.01	1.04	-0.21	1.00	Off	7
	22.00			-1.1		310		2.52					-0.20	1.01		
								2.70					-0.18	1.00		
													-0.18	1.00		
													-0.17	1.02		
91.0	22.00		43	-1.1	-2.3	309	-1	2.70	1.01	1.01	1.01	1.04	-0.16	1.01	Off	7
			43		-2.0			2.43	1.01	1.01	1.01	1.04	-0.16	1.00	Off	7
								2.25					-0.16	1.00		
													-0.17	1.01		
92.0	27.00		43	-1.1	-1.8	309	-1	1.89	1.01	1.01	1.01	1.03	-0.17	1.00	Off	7
	27.00					308		1.80					-0.17	1.01		
								2.07					-0.17	1.01		
													-0.17	1.00		
													-0.16	1.01		
93.0	27.00		42	-1.1	-1.7	306	-1	2.70	1.01	1.01	1.01	1.03	-0.14	1.01	Off	7
			42	-0.7	-1.6		-1	3.60	1.01	1.01	1.01	1.03	-0.12	1.00	Off	7
								3.96					-0.10	1.00		
													-0.06	0.99		
94.0	32.00		42	-1.1	-1.3	304	-1	4.41	1.01	1.01	1.01	1.03	-0.05	1.01	Off	7
	37.00							4.50					-0.04	1.02		
								4.50					-0.03	1.00		
													-0.02	1.01		
													-0.02	1.01		
95.0	37.00		42	-1.1	-1.2	302	-1	4.50	1.01	1.01	1.01	1.03	-0.02	1.01	Off	7
			42	-1.1	-0.9	302	-1	4.41	1.01	1.01	1.01	1.03	-0.01	1.01		7
								4.41					-0.02	1.01		
													-0.02	1.01		
96.0	32.00		42	-1.1	-0.9	297	-1	4.50	1.01	1.01	1.01	1.03	-0.03	1.02	Off	7
	27.00							4.32					-0.04	1.02	Off	
								4.32					-0.05	1.00		
													-0.05	1.01		
													-0.04	1.01		

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Time	MSL Alt	IAS	Pitch Angle	Elevator Position Right	Mag. Heading	Roll Angle	Rudder Position (upper)	Angle of Attack	EPR Engine 1	EPR Engine 2	EPR Engine 3	EPR Engine 4	Long. Accel	Vert. Accel.	VHF	Pitch Trim Stab Pos
(seconds)	(FEET)	(KNOTS)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(ratio)	(ratio)	(ratio)	(ratio)	(g)	(g)		(degrees)
99.0	22.00		42	-1.1	-0.7	283	-1	1.89	-19	1.01	1.01	1.01	1.03	-0.02	1.01	
				-1.1	-0.9	279	-1	1.71	-14	1.01	1.01	1.01		-0.02	1.01	Off
								1.53	-16					-0.02	1.01	7
100.0	22.00		42	-0.7	-0.9	275	-1	1.17	-14	1.00	1.01	1.01	1.03	-0.02	1.02	Off
	22.00		42					0.90	-13				1.03	-0.02	1.00	Off
								0.36						-0.02	1.01	
101.0	22.00		42	-0.7	-0.7	271	0	0.00	-9	1.00	1.01	1.01	1.03	-0.02	1.02	
				-0.7	-0.4	267	-1	-0.90	-8	1.00	1.01			-0.02	1.01	Off
								-1.44	-8					-0.02	1.03	7
102.0	22.00		42	-0.7	-0.7	264	-1	-2.16	-6	1.01	1.01	1.01	1.03	-0.02	1.01	Off
	22.00		42					-2.52	-6			1.01	1.03	-0.02	1.01	Off
								-2.97						-0.01	1.00	
103.0	22.00		42	-0.7	-0.7	261	-1	-2.88	-5	1.01	1.01	1.01	1.03	-0.02	1.01	Off
				-0.7	-0.5	258	-1	-2.88	-5	1.01				-0.02	1.01	7
								-3.06	-5					-0.02	1.02	7
104.0	27.00		42	-0.7	-0.9	255	0	-2.70	-3	1.01	1.01	1.01	1.03	-0.02	1.00	Off
	27.00		42					-2.43	-4		1.01	1.01	1.03	-0.01	0.99	Off
														-0.01	1.01	
105.0	27.00		42	-0.7	-0.5	252	0	-1.98	-4	1.01	1.01	1.01	1.03	-0.01	1.01	Off
				-0.7	-0.6	250	0	-1.71	-5					-0.01	1.00	7
								-1.35	-5					0.00	1.00	
								-1.35	-5					0.00	1.02	

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FDR lapse Time	ALTC	Elevator Position Left	Rudder Position (lower)	Aileron Position R inbd	Flap pos Trailing Inbd	Flap pos Trailing OUTBD	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
(seconds)	(FEET)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(1-T/R)	(1-T/R)	(1-T/R)	(1-T/R)
0.0	540.0	1.6	-0.4	0.6	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
0.7	540.0	1.2	-0.2	0.0	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
1.3	540.0	0.8	-0.2	1.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
2.0	540.0	0.8	-0.2	0.6	25.4	24.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
2.7	540.0	0.9	0.0	3.9	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
3.4	540.0	1.1	-0.1	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
4.0	540.0	3.2	-0.2	0.0	25.3	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
4.7	540.0	3.1	0.0	1.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
5.4	540.0	3.2	0.0	-3.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
6.0	540.0	1.9	0.2	-2.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
6.7	540.0	1.4	0.2	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
7.4	540.0	2.0	0.4	1.6	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
8.1	540.0	3.1	0.2	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
8.7	540.0	3.5	0.0	-2.4	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
9.4	405.0	3.6	0.1	-3.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
10.1	405.0	3.4	0.2	-2.4	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
10.8	405.0	3.1	0.2	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
11.4	405.0	2.8	0.3	3.2	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
12.1	405.0	2.7	0.1	1.2	25.5	24.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
12.8	405.0	2.3	0.0	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
13.4	405.0	1.5	0.1	-2.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
14.1	405.0	1.7	0.2	-2.0	25.3	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
14.8	405.0	2.1	0.4	-2.0	25.3	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
15.5	405.0	1.8	0.3	-1.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16.1	405.0	1.7	0.0	-1.0	25.3	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
16.8	405.0	2.5	0.0	0.0	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
17.5	270.0	3.0	-0.2	-2.6	25.3	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
18.1	270.0	2.5	-0.1	-3.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
18.8	270.0	3.2	0.0	-4.1	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
19.5	270.0	3.4	0.0	-2.4	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20.2	270.0	3.4	0.0	4.9	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
20.8	270.0	2.7	0.0	4.3	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
21.5	270.0	1.5	0.0	4.9	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
22.2	270.0	1.2	0.0	3.2	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
22.8	270.0	1.2	0.0	-1.4	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
23.5	270.0	2.8	0.0	4.9	25.3	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
24.2	270.0	2.4	0.0	-2.4	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
24.9	270.0	2.7	0.1	-2.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
25.5	270.0	3.1	0.5	-0.4	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
26.2	270.0	3.2	0.6	5.9	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow

FDR Tapes Time	ALTC	Elevator Position Left	Rudder Position (lower)	Aileron Position R inbd	Flap pos Trailing Inbd	Flap pos Trailing OUTBD	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
(seconds)	(FEET)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(1-T/R)	(1-T/R)	(1-T/R)	(1-T/R)
26.9	270.0	3.1	0.5	0.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
27.5	270.0	1.7	0.4	7.5	25.5	24.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
28.2	270.0	0.7	0.0	4.5	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
28.9	270.0	0.9	-0.4	86.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
29.6	270.0	1.2	-0.5	-2.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
30.2	135.0	2.7	-0.2	-10.1	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
30.9	135.0	3.3	-0.4	-2.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
31.6	135.0	4.5	-0.3	-5.3	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
32.2	135.0	4.7	0.0	0.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
32.9	135.0	1.5	0.7	2.6	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
33.6	135.0	1.8	1.3	1.3	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
34.3	135.0	1.4	1.4	9.9	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
34.9	135.0	1.4	0.8	2.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
35.6	135.0	3.6	-0.2	-3.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
36.3	135.0	3.7	0.0	-5.7	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
37.0	135.0	2.7	0.2	4.9	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
37.6	135.0	2.0	0.4	16.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
38.3	135.0	2.7	0.3	-3.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
39.0	0.0	1.6	0.0	-7.3	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
39.6	0.0	1.2	0.0	-4.3	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
40.3	0.0	2.6	0.1	-4.3	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
41.0	0.0	3.1	0.2	-2.0	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
41.7	0.0	1.1	1.1	9.9	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
42.3	0.0	1.5	0.9	-1.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
43.0	0.0	1.2	0.3	-2.4	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
43.7	0.0	1.9	0.1	-3.0	25.5	24.2	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
44.3	0.0	1.1	-0.2	8.7	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
45.0	0.0	0.3	0.0	-2.0	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
45.7	0.0	0.3	0.0	-3.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
46.4	0.0	0.9	0.0	1.2	25.4	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
47.0	0.0	0.9	0.1	-1.6	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
47.7	0.0	0.1	0.4	-13.0	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
48.4	0.0	-1.7	0.5	-8.3	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
49.0	0.0	-2.1	0.8	-3.7	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
49.7	0.0	-3.1	1.0	-2.4	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
50.4	0.0	-1.3	1.9	16.2	25.4	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
51.1	0.0	-5.6	7.6	24.3	25.5	24.0	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
51.7	0.0	-2.2	6.6	12.0	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
52.4	0.0	-4.0	-0.5	21.7	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
53.1	0.0	-6.5	0.0	6.9	25.5	24.1	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow



FDR Tapes Time	ALTC	Elevator Position Left	Rudder Position (lower)	Aileron Position R inbd	Flap pos Trailing Inbd	Flap pos Trailing OUTBD	Leading Edge Lt. Set 1 (discrete)	Leading Edge Lt. Set 2 (discrete)	Leading Edge Lt. Set 3 (discrete)	Leading Edge Lt. Set 4 (discrete)	Leading Edge Rt. Set 1 (discrete)	Leading Edge Rt. Set 2 (discrete)	Leading Edge Rt. Set 3 (discrete)	Leading Edge Rt. Set 4 (discrete)	Reverser Eng 1 (1-T/R)	Reverser Eng 2 (1-T/R)	Reverser Eng 3 (1-T/R)	Reverser Eng 4 (1-T/R)
(seconds)	(FEET)	(degrees)	(degrees)	(degrees)	(degrees)	(degrees)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(discrete)	(1-T/R)	(1-T/R)	(1-T/R)	(1-T/R)
80.6	0.0	14.6	-0.3	-3.0	25.5	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
81.3	0.0	13.1	3.2	-10.3	25.5	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
82.0	0.0	12.7	3.2	-10.1	25.6	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
82.6	0.0	11.1	2.4	-20.5	25.6	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
83.3	0.0	7.6	7.5	-17.8	25.7	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
84.0	0.0	4.6	3.4	-5.1	25.6	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
84.7	0.0	4.4	2.9	-2.6	25.6	24.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
85.3	0.0	5.0	-1.3	-2.6	25.7	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
86.0	0.0	5.5	-1.0	-3.0	25.6	24.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
86.7	0.0	5.6	0.0	-3.0	25.6	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
87.3	0.0	5.8	0.5	-3.0	25.7	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
88.0	0.0	5.7	0.7	-3.0	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
88.7	0.0	5.4	0.5	-3.0	25.7	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
89.4	0.0	4.1	0.8	-2.6	25.6	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Dep	Dep	Trns	Dep
90.0	0.0	3.6	1.7	-3.0	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Trns	Dep	Trns	Dep
90.7	0.0	3.2	2.0	-3.0	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Trns	Dep	Trns	Dep
91.4	0.0	2.9	1.9	-2.6	25.7	24.3	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Trns	Trns	Stow	Trns
92.0	0.0	2.8	1.5	-2.6	25.7	24.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Trns	Trns	Stow	Trns
92.7	0.0	2.8	1.4	-3.0	25.6	24.5	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Trns	Trns	Stow	Trns
93.4	0.0	2.6	2.3	-2.6	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Trns
94.1	0.0	2.4	3.4	-3.0	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Trns
94.7	0.0	2.1	4.0	-2.6	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Trns
95.4	0.0	1.8	4.1	-2.6	25.7	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
96.1	0.0	1.8	4.0	-3.0	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
96.8	0.0	1.7	4.1	-2.6	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
97.4	0.0	1.8	4.1	-2.6	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
98.1	0.0	1.8	3.6	-2.6	25.7	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
98.8	0.0	1.5	3.0	-2.6	25.7	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
99.4	0.0	1.7	2.5	-2.6	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
100.1	0.0	1.8	1.9	-3.0	25.9	24.9	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
100.8	0.0	1.7	1.7	-2.6	25.8	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
101.5	0.0	1.6	-0.4	-2.6	25.8	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
102.1	0.0	1.5	-1.6	-2.6	25.8	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
102.8	0.0	1.7	-2.1	-2.6	25.8	24.6	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
103.5	0.0	1.7	-3.1	-2.6	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
104.1	0.0	1.7	-3.1	-2.6	25.7	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
104.8	0.0	1.5	-2.5	-2.6	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
105.5	0.0	1.4	-2.2	-2.6	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
106.2	0.0	1.7	-2.2	-3.0	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow
106.8	0.0	1.5	-2.3	-2.6	25.8	24.7	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Ext	Stow	Stow	Stow	Stow



